

SEQUENCE LISTING

<110> Medical & Biological Laboratories Co., Ltd.

<120> Monoclonal Antibody Recognizing
Phosphatidylinositol-3,4-diphosphate

<130> M3-107

<140>

<141>

<150> JP 1999-250209

<151> 1999-09-03

<160> 10

<170> PatentIn Ver. 2.0

<210> 1

<211> 372

<212> DNA

<213> Mus musculus

<220>

<221> CDS

<222> (1)..(372)

<400> 1

gag	gtg	caa	ctg	gtg	gag	tct	ggg	gga	gac	tta	gtg	aaa	cct	gga	ggg	48
Glu	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Asp	Leu	Val	Lys	Pro	Gly	Gly	
1				5					10					15		

tcc	gtg	aaa	ctc	tcc	tgt	gca	gcc	tct	gga	ttc	act	ttc	agt	agc	tat	96
Ser	Val	Lys	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr	
			20					25					30			

ggc	atg	tct	tgg	gct	cgc	cag	act	cca	gac	aag	agg	ctg	gag	tgg	gtc	144
Gly	Met	Ser	Trp	Ala	Arg	Gln	Thr	Pro	Asp	Lys	Arg	Leu	Glu	Trp	Val	
		35					40					45				

gca	agc	att	agt	agt	ggt	ggt	agt	tac	acc	tac	tat	cca	gac	agt	gtg	192
Ala	Ser	Ile	Ser	Ser	Gly	Gly	Ser	Tyr	Thr	Tyr	Tyr	Pro	Asp	Ser	Val	
		50				55					60					

aag	ggg	cga	ttc	acc	atc	tcc	aga	gac	aat	gcc	aag	aac	acc	ctg	tac	240
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	Leu	Tyr	
	65					70					75				80	

ctg caa atg agc agt ctg aag tct gag gac aca gcc atg tac tac tgt 288
 Leu Gln Met Ser Ser Leu Lys Ser Glu Asp Thr Ala Met Tyr Tyr Cys
 85 90 95

gca aga cag agg ggc tat gtt aac ttc ggg att gct tac tgg ggc caa 336
 Ala Arg Gln Arg Gly Tyr Val Asn Phe Gly Ile Ala Tyr Trp Gly Gln
 100 105 110

ggg act ctg gtc act gtc tct gca gct aca aca aca 372
 Gly Thr Leu Val Thr Val Ser Ala Ala Thr Thr Thr
 115 120

<210> 2

<211> 124

<212> PRT

<213> Mus musculus

<400> 2

Glu Val Gln Leu Val Glu Ser Gly Gly Asp Leu Val Lys Pro Gly Gly
 1 5 10 15

Ser Val Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30

Gly Met Ser Trp Ala Arg Gln Thr Pro Asp Lys Arg Leu Glu Trp Val
 35 40 45

Ala Ser Ile Ser Ser Gly Gly Ser Tyr Thr Tyr Tyr Pro Asp Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
 65 70 75 80

Leu Gln Met Ser Ser Leu Lys Ser Glu Asp Thr Ala Met Tyr Tyr Cys
 85 90 95

Ala Arg Gln Arg Gly Tyr Val Asn Phe Gly Ile Ala Tyr Trp Gly Gln
 100 105 110

Gly Thr Leu Val Thr Val Ser Ala Ala Thr Thr Thr
 115 120

<210> 3

<211> 336

<212> DNA

<213> Mus musculus

<220>

<221> CDS

<222> (1)..(336)

<400> 3

gat gtt gtg atg acc caa act cca ctc tcc ctg cct gtc agt ctt gga	48
Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly	
1 5 10 15	
gat cag gcc tcc atc tct tgc aga tct agt cag agc ctt gta cac agt	96
Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser	
20 25 30	
aat gga aac acc tat tta cat tgg tac ctc cag aaa cca ggc cag tct	144
Asn Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser	
35 40 45	
cca aag ctc ctg atc tac aaa gtt tcc aac cga ttt tct ggg gtc cca	192
Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro	
50 55 60	
gac agg ttc agt ggc agt gga aca agg aca gat ttc aca ctc aag atc	240
Asp Arg Phe Ser Gly Ser Gly Thr Arg Thr Asp Phe Thr Leu Lys Ile	
65 70 75 80	
agc aga gtg gag gct gag gat ctg gga gtt tat ttc tgc tct caa agt	288
Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Ser Gln Ser	
85 90 95	
aca cat gtt ccg tac acg ttc gga ggg ggg acc aag ctg gaa ata aaa	336
Thr His Val Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys	
100 105 110	

<210> 4

<211> 112

<212> PRT

<213> Mus musculus

<400> 4

Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly	
1 5 10 15	
Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser	
20 25 30	

Asn Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser
 35 40 45

Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro
 50 55 60

Asp Arg Phe Ser Gly Ser Gly Thr Arg Thr Asp Phe Thr Leu Lys Ile
 65 70 75 80

Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Ser Gln Ser
 85 90 95

Thr His Val Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
 100 105 110

<210> 5

<211> 7

<212> PRT

<213> Mus musculus

<400> 5

Gly Phe Thr Phe Ser Ser Tyr
 1 5

<210> 6

<211> 6

<212> PRT

<213> Mus musculus

<400> 6

Ser Ser Gly Gly Ser Tyr
 1 5

<210> 7

<211> 11

<212> PRT

<213> Mus musculus

<400> 7

Gln Arg Gly Tyr Val Asn Phe Gly Ile Ala Tyr
 1 5 10

<210> 8

<211> 16

<212> PRT

<213> Mus musculus

<400> 8

Arg Ser Ser Gln Ser Leu Val His Ser Asn Gly Asn Thr Tyr Leu His

1

5

10

15

<210> 9

<211> 7

<212> PRT

<213> Mus musculus

<400> 9

Lys Val Ser Asn Arg Phe Ser

1

5

<210> 10

<211> 9

<212> PRT

<213> Mus musculus

<400> 10

Ser Gln Ser Thr His Val Pro Tyr Thr

1

5

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☒ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.